

**Abstract****POROUS INORGANIC MACROSTRUCTURE MATERIALS  
AND PROCESS FOR THEIR PREPARATION**

There is provided macrostructures of porous inorganic material which can  
5 have controlled size, shape, and/or porosity and a process for preparing the  
macrostructures. The macrostructures comprise a three-dimension network of  
particles of porous inorganic materials. The process for preparing the  
macrostructures involves forming an admixture containing a porous organic ion  
10 exchanger and a synthesis mixture capable of forming a porous inorganic material  
and then converting the synthesis mixture to a solid porous inorganic material.  
After formation of the composite material, the porous organic ion exchanger can  
be removed from the composite material to obtain the macrostructures, either  
before or after the porous inorganic material is hydrothermally treated with a  
15 structure directing agent to convert at least a portion of such porous inorganic  
material to a crystalline molecular sieve composition. The resulting  
macrostructure is composed of particles of the crystalline molecular sieve  
composition.